Lothringen
Bhv. 11

Profile & Deck.
St. Thueringen
Bhv. 1175

"Moora"

Saluta

RETAIN

W1070-0186

© 2020
Lloyd's Register Foundation

Act. Ges. Weser. Bremen.

S. S. 148/149.

Class: Lloyd's ✠ 100 A I.

Steel Threedeck Rule, Deep framing.

1 : 100

Length betw. Perps. . . . . . . 408' 0"

Breadth moulded . . . . 52' 6"

Depth moulded . . . . 30' 9"

Z. № 14.

ACTIEN-GESELLSCHAFT
„WESER"
BREMEN.

17·2·05

Profile
Tween-Deck
Main Deck
Bridge
Poop
Back
9/10 L
1/2 L
Wash places & Closets
about 30'
(For webs in E. & B. space see sketch below)
Stringers as above
W.T. Bh'd
strong welded angles around coamings
Engine and boiler space 1/100
Store
Coal
pocket
web
Casing of Engine R.
Casing of Fireroom
Screen Bk'd
W.T. BK'd
X Pillars where practicable

Notice: All scantlings to be taken so that they need not be strengthened in case of the bridge being continued to long poop.

Sketch of web frames, and of pillaring by the vertical sides of bulkheads, coal bunkers and pocket bunkers. stiffened as per Sec. 15. par. 14.

Details on larger scale to be submitted

Instead of 2 webs 24" high four webs only 18" to draw coals from engine space to boiler space.

17/2/05

"Lothringen"
Blu 1140

Midship Section

S.S. "Thuringen"
Blu. 1175

("Moora")

Saluta

RETAIN

W1070-0187

ACTIEN-GESELLSCHAFT
„WESER"
BREMEN.

Z. No 13.

17.2.05

Moora

Act. Ges. Weser. Bremen.

S.S. 148-149.

Midships-Section 1/25.

Length betw. Perp.	= 408' 0"	1/2 Girth	= 54,29
Breadth moulded	= 52' 6"	1/2 Breadth	= 26,25
Depth moulded	= 30' 9"	Depth	= 31,93
L : D = 12,81.			112,47
L : B = 7,78			

1st Number = 112,47 − 7 = 105,47.
2nd Number = 408 · 105,47 = 43032

Class: Lloyd's ✠ 100 A I. Steel. Threedeck-Rule; Deep framing.

Stern	=	11 1/2 · 3 1/8
Stern frame	=	11 1/2 · 7 1/2
Rudderhead	=	10
Pintles	=	5
Plate	=	22/20

Special drawing

Anchors, Chains & Cables.

112, 47 · 408 = 45887.
Bridge + Poop = 158 · 8,17 = 1290
Forecastle = 47,6 · 7,5 = 357
Erections = 55,8 · 7,5 = 418
2065 · 1,5 = 3097
Number for equipment = 48984.

Number for equipment = 48984

3 Bower anchor, stockless	=	182 Cwts
1 Stream anchor incl. stock	=	21,87 "
1 Kedge anchor	=	9,37 "
270 Fathoms stud chain	2 4/16"	diam.
90 " steel wire	4 3/4"	~~hemp~~
120 " " "	5"	"
2·90 " Hawsers	8"	"
2·90 " Warps	7"	"

Frame in way of deep framing
Frame in way of Lower Deck
Main Deck
Tween Deck
Lower Deck
Steel deck
Beams to every frame
Hatchbeams
Face plate
Knees
Hatchbeam
Girder
Pillar
Mannesmann
Side coamings 9.9/20
End coamings 7.9/20
Two shifting beams
Bulkhead in way of Lower Deck
Bulkhead in way of Deep framing
M
L
K
J
H
G
Cargo battens 5 · 1 1/2
Ceiling 2 1/2"
Gusset plate to every frame
Double angles
reduced 2/20 in way of bridge
Equipment number to be less than 50200 or equipment increased
See Letter 17/2/05

Notice: All scantlings to be taken so that they need not be strengthened in case of the bridge being continued to long poop.

Pillaring in E & B space see deck plans.

Steel deck 9.1/20 f. 1/2 L; 7.9/20 at ends and between hatchway. 5 · 2 1/2 Moa wood. Oregon pine 5 · 2 1/2 in way of poop and forecastle under 52 feet long.

Maindeck stringer plate:
63 · 15.5/20 from 3/5 L to 10' within bridge
63 · 11/20 within bridge
49 · 9.1/20 at ends.

Knees = 22 · 9.9/20
Hatchbeam = 30 · 9.9/20

Frame spacing 25" From stem to 184 = 16,71"

Deep framing	[9 1/2 · 11.5/20 · 3 3/4 · 12.2/20	from	39 – 112
	L 9 1/2 · 3 3/4 · 12.6/20	"	14 – 39
Frames	[7 7/8 · 7.9/20 · 3 3/8 · 11/20	"	114 – 156.
	L 7 7/8 · 3 3/8 · 10.2/20	"	156 – stem (Two side girders See profile)
	and 0 – 14.		

All frames reach to main Deck respectively Forecastle and Poop Deck. In way of bridge, the deep frames reach to main deck stringer angle bar and are continued by L 7 1/4 · 3 1/2 · 11/20 (See sketch at bridge side) or if preferred by L 6 · 3 1/2 · 10.2/20 and a side stringer L 4 · 4 · 10.2/20 with webs as per profile or alternate deep frames extended to bridge deck with intermediate frames in bridge 4 1/2 × 3 1/2 × 9/20 and no webs. Tweendeck stringer 63 · 11/20 f. 1/2 L, 49 · 9.1/20 at ends.

all channels forward of No 114 extended to bridge
Steel deck 7.9/20 f. 1/2 L; 7.1/20 at ends.

Knees = 27 · 11/20
Hatchbeam = 34 1/2 · 11/20

Riveting of outside plating.

Plate keel: treble riv. single butt-straps. all fore and aft.
Keel doubling treble riveted butt straps
Strake B to L: quad. rivet. overlaps f. 1/2 L;
treble " " at ends.
Sheerstrake M: quad. " " f. 1/2 L.
treble " " at ends.
Strake N to O: treble " " in way of Bridge.
double " " at ends.
All landings of the strakes A–M double riv. over laps.
N–O double in way of bridge, single riv. overl. at ends.

Riveting of Decks.

Maindeck: Stringer quadr. riv. overlaps f. 1/2 L
treble " " at ends
Deck plating treble " " f. 1/2 L
double " " at ends and between hatchways
single " " at ends between hatchways
Tweendeck: Stringer treble " " f. 1/2 L
Deck plating double " " f. 1/2 L
single " " at ends
Lowerdeck: Stringer treble " " f. 1/2 L
double " " at ends
Deck plating double " " f. 1/2 L
single " " at ends
Bridge Deck: Stringer treble " "
Deck plating double " " ; single between hatchways
Poop, Forecastle: Stringer double " " ; plating single riv.
All landings to be single riveted, with the only exception of maindeck-stringer landing, double riv. from within bridge to ends.

Riveting of Double bottom.

Middle plate: treble riveted overlaps f. 1/2 L.
Margin plate: " " f. 1/2 L. double at ends.
~~Side~~ Top plating: double " " butts fore + aft

Intercostals 10.2/20 3" flange
4 · 7 7/8 · 12.6/20

Notice:

In case of the strong pillars and girders under the fore Tween Deck and the fore and aft Main Deck being replaced by common pillars, we submit to the approval of the committee the following scantlings:

Pillars and Girders in the fore and aft hold: The same scantlings and spacing as indicated on the plans.

Pillars to Tween Deck:	Mannesmann O	4 3/4 · 6.3/20	to every 2nd frame	
		5 3/4 · 6.3/20	" " 4th "	in way of hatchway
" " Main Deck:	"	4 · 5.5/20	" " 2nd "	
	"	4 1/2 · 6.3/20	" " 4th "	" " " "
" " Bridge Deck:	"	3 3/4 · 5.1/20	" " 2nd "	
	"	4 3/8 · 5.9/20	" " 4th "	" " " "

with intercostal girders

Girder to Tween and Main Deck beams ~~T 6 1/8 · 3 1/4 · 10.2/20~~ ╥ 4 1/2 × 3 1/2 × 10/20 double angles or equivalent.

Sketch showing attachment of strong pillar to girder

Arrangement of strong pillar see profil.

Arrangement of gusset plates to every frame

Double bottom: Middle line Strake 46 · 11/20 f. 1/2 L, 9.1/20 at ends, 12/20 in boiler space. Side plating 9.1/20 f. 1/2 L, 8.1/20 at ends, 11/20 in boiler space, 10/20 in engine space.

Two additional side girders in way of engine room.

From 96 to collision bulkhead intercostal side girders 25" high. Strakes C, D, E to be of the same thickness as amidships.

17/2/05

Lothringen
Bhv. 1140.

Boiler.
S.S. Thuringen
Bhv. 1175.

"SALUTA"

LLOYD'S REGISTER OF SHIPPING
9 - FEB. 1906
LONDON

RETAIN

W1070-0184

Act. Ges. Weser. Bremen.

Boilers No: 836~838 for ship No: 148.
Boilers No: 840~842 for ship No: 149.

ACTIEN-GESELLSCHAFT
„WESER"
BREMEN.

10: 2: 05

Total heating surface = 2368 □'
Total grate area = 56 □'
Concessional pressure = 15½ kgr. per □ cm.
= 220,46 lbs. per □"

Working pressure = 15 kgr. per □ cm = 213,35 lbs. per □"
Testing hydraulic pressure = 20½ kgr. per □ cm
= 291,58 lbs. per □"

Scale 1:10.

Manhole
Washers 1" riveted
Manhole 2.
screwed
3" ext. dia
3" steel stays, eff. dia 2 33/32", eff. area 5,8 □"
212 plain tubes 2¾" ext. dia 8 B.W.G. Swelled 1/16 at front end
146 stay tubes 2¾" " " 5/16" thik, at both ends screwed and riveted.
(the eff. thickness at the ends is also 5/16")
double butt straps
Riveted four times below at 15" lengths.
8 3/16
1 3/64
1 35/64

Cylindrical shell and butt straps ~ steel of tensile strength of 26,7 ~ 29,8 tons per □"
All other plates " " " " " 22,2 ~ 25,4 " " "
Stays " " " " " 22,9 ~ 26,7 " " "
Rivets ~ iron of special quality of tensile strength not less as 23,5 " " "

1⅞" steel stays, eff. dia 1 23/32", eff. area 2,36 □"
1 25/32" " " , " " 1⅝", " " 2,05 □"
2" " " , " " 1 27/32", " " 2,68 □"

H.S.
10.2.05

Lothringen Bhn 1140.

Boiler.

S.S. Thuringen.
Bhn. 1175

BREMEN
"WESER"
ACTIEN-GESELLSCHAFT

"SALUTA"

LLOYD'S REGISTER OF SHIPPING
RECEIVED
30 MAR 1903
LONDON

RETAIN

W1070-0185

Act. Ges. Weser. Bremen.

Boiler No: 839 for ship No: 148.
Boiler No: 843 for ship No: 149.

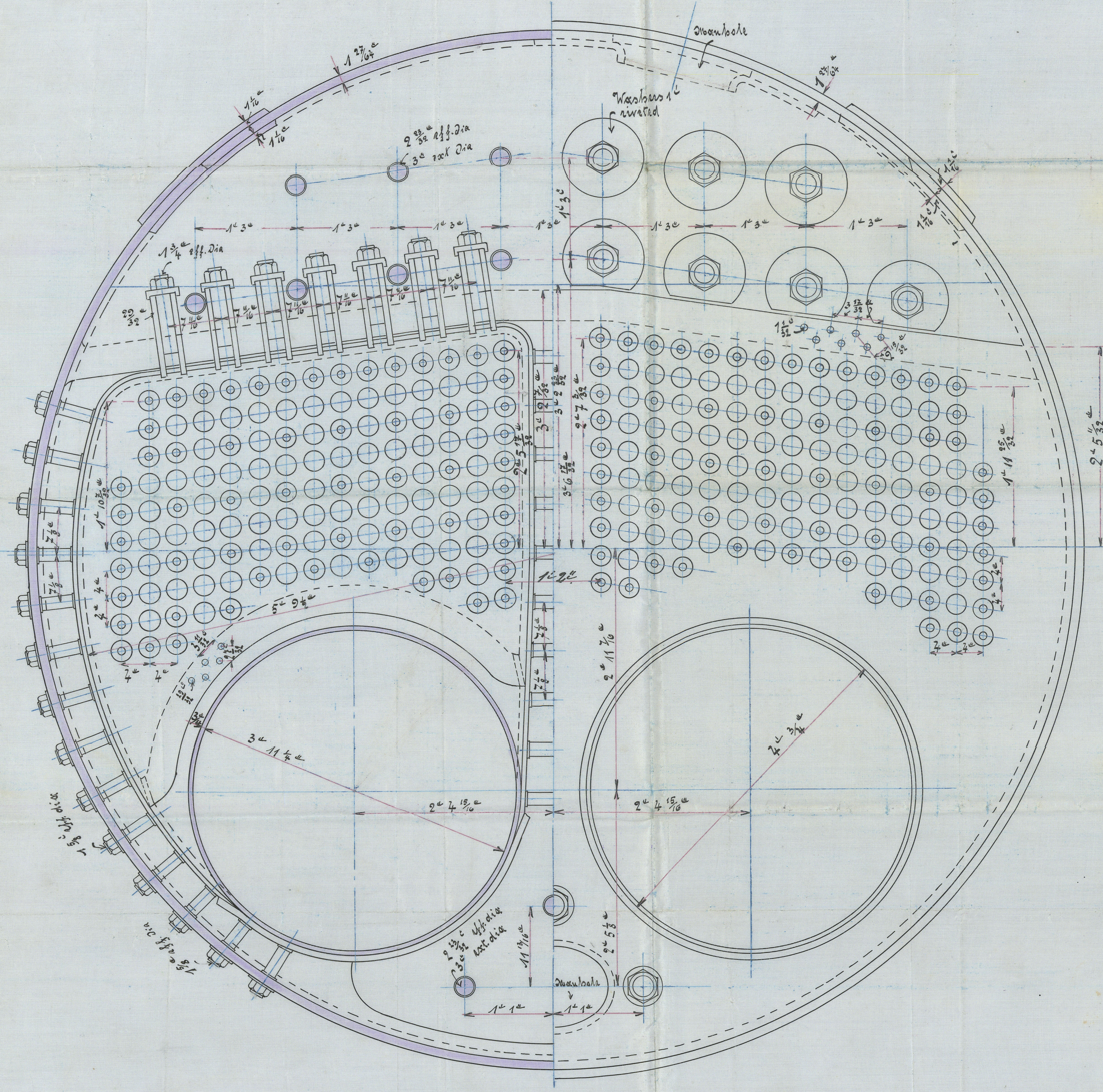
10: 2: 05

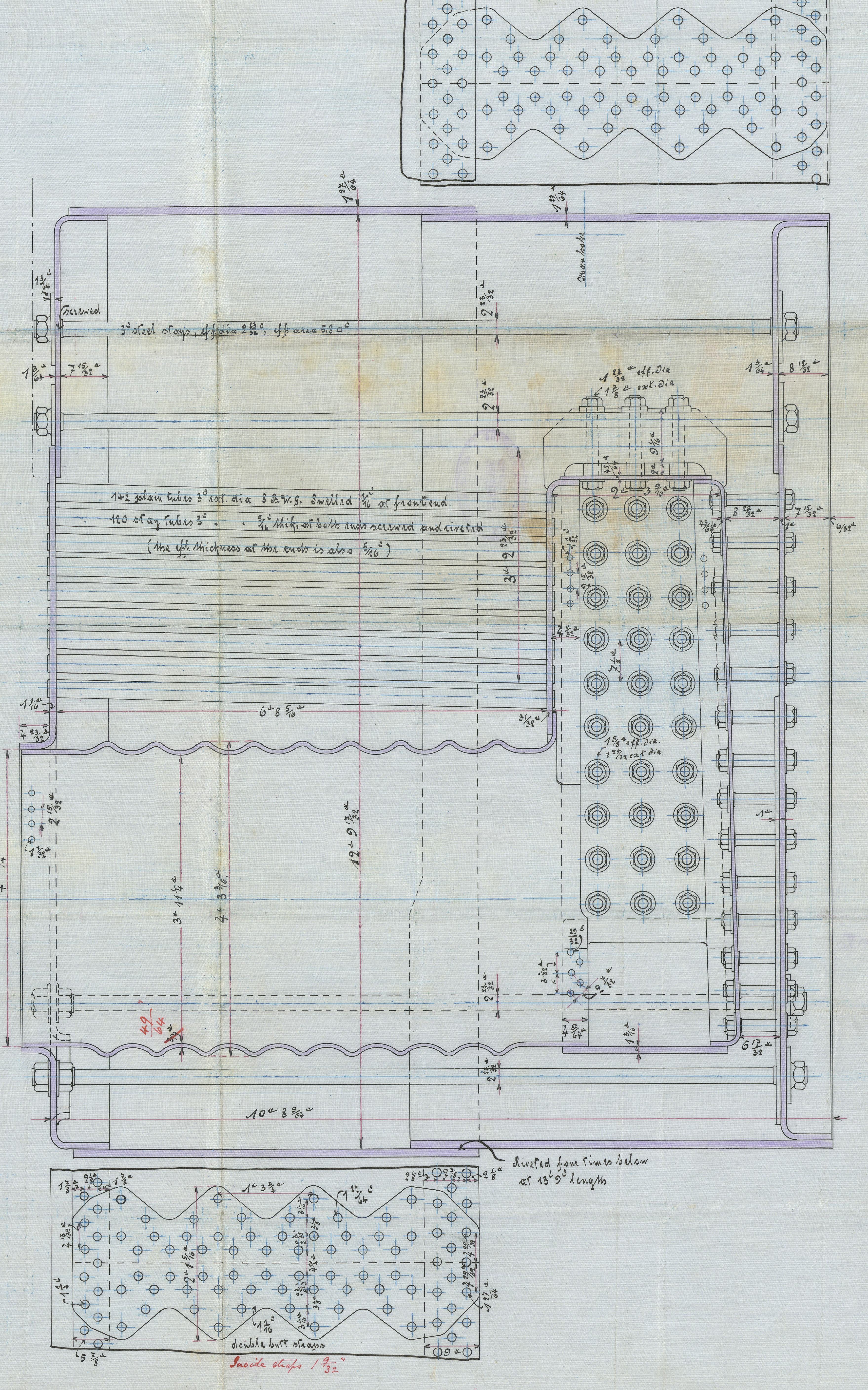
ACTIEN-GESELLSCHAFT
„WESER"
BREMEN.

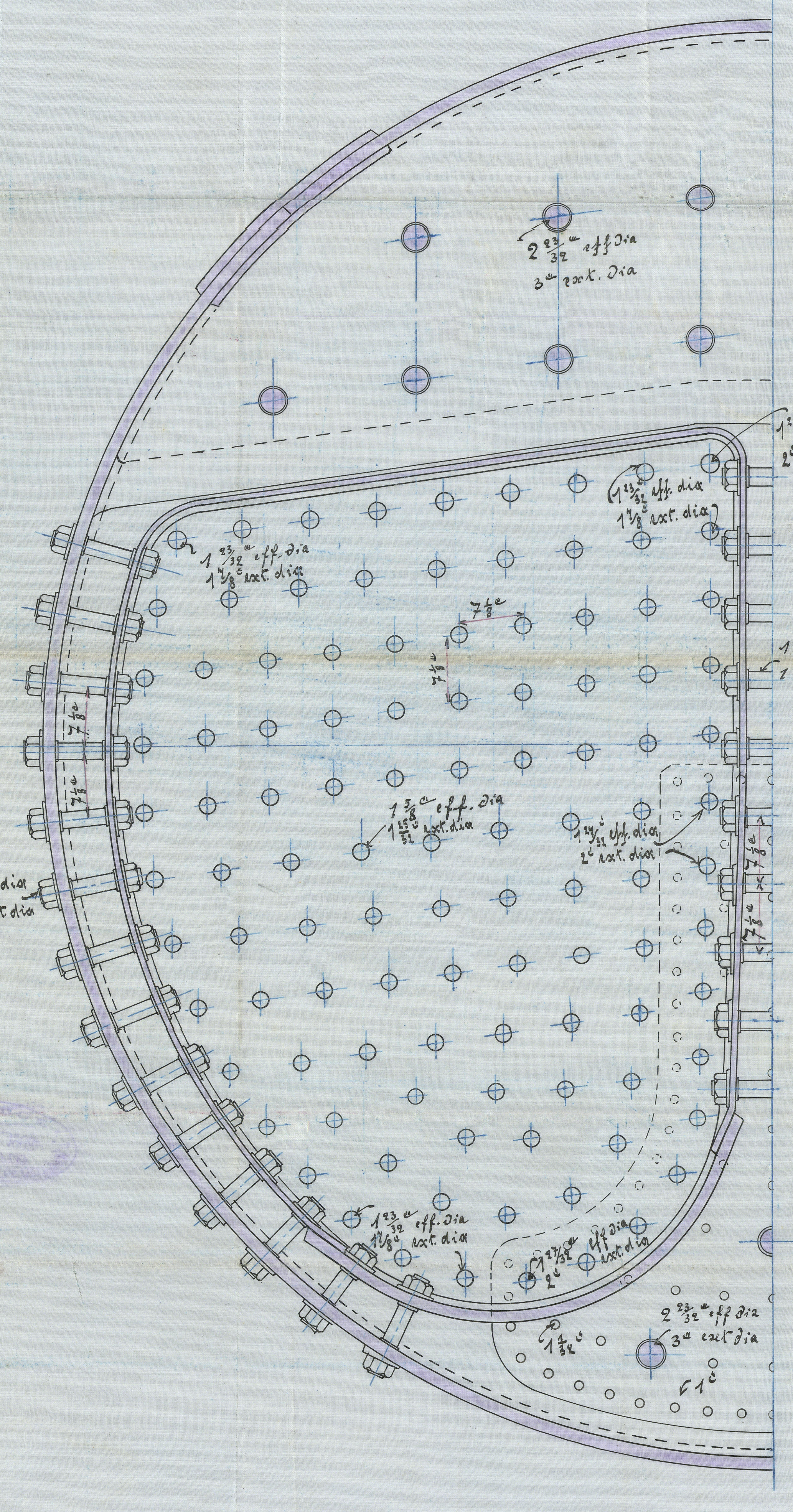
Total heating surface = 1614,6 □'
Total grate area = 50,6 □'
Concessional pressure = 15½ kgr. per □cm
= 220,45 lbs per □"

Working pressure = 15 kgr. per □cm = 213,35 lbs per □"
Testing hydraulic pressure = 20½ kgr. per □cm
= 291,58 lbs per □"

Scale 1:10.


Manhole
Washers 1" riveted
$2\frac{3}{32}$" eff. dia
3" ext. dia
$1\frac{3}{4}$" eff. dia
$1\frac{27}{64}$"
1' 3"
$2' 5\frac{1}{32}$"
$2' 4\frac{13}{16}$"
Manhole
1' 1"


screwed
3" steel stays, eff. dia $2\frac{23}{32}$", eff. area 5,8 □"
Manhole
142 plain tubes 3" ext. dia 8 B.W.G. Swelled $\frac{1}{16}$" at front end
120 stay tubes 3" " " $\frac{5}{16}$" thik, at both ends screwed and riveted
(the eff. thickness at the ends is also $\frac{5}{16}$")
$6' 8\frac{5}{16}$"
$12' 9\frac{13}{32}$"
$10' 8\frac{9}{64}$"
$7\frac{15}{32}$"
$2\frac{23}{32}$"
$1\frac{23}{32}$"
$1\frac{7}{8}$"
Riveted four times below at 13' 9" length
$1' 3\frac{3}{4}$"
$1\frac{27}{64}$"
$1\frac{1}{16}$"
$5\frac{7}{8}$"
double butt straps
Inside straps $1\frac{9}{32}$"


$2\frac{3}{32}$" eff. dia
3" ext. dia
$1\frac{23}{32}$" eff. dia
2" ext. dia
$1\frac{3}{4}$" eff. dia
$1\frac{25}{32}$" ext. dia
$1\frac{7}{8}$" eff. dia

Cylindrical shell and butt straps ~ steel of tensile strength of 26,7 ~ 29,8 tons per □"
All other plates " " " " ~ 22,2 ~ 25,4 " " "
Stays " " " " ~ 22,9 ~ 26,7 " " "
Rivets ~ iron of special quality of tensile strength not less as 23,5 " " "

$1\frac{7}{8}$" steel stays, eff. dia $1\frac{23}{32}$", eff. area 2,36 □"
$1\frac{25}{32}$" " " , " " $1\frac{5}{8}$", " " 2,05 □"
2" " " , " " $1\frac{27}{32}$", " " 2,68 □"

M.S.
10.2.05